

Naval Diving & Salvage Training Center

Panama City, Florida





Mission Statement

NDSTC serves the Department of Defense by training divers in support of Navy, Marine Corps, Joint and Allied Forces.

NDSTC Vision

To be the Department of Defense's Single Point Manager and world leader in diver training.

Guiding Principles

- To ensure that safety remains first and foremost in all our actions, operations and processes.
- Employing the principles of total Quality Leadership, we will strive to ensure that all changes to our existing processes are data driven. We will strive to ensure that all our processes in support of our customers will be subjected to continuous process improvement.
- To continually evaluate our training programs to ensure the most efficient and economic level of diver training possible.
- Be responsive to our customer's needs. Keep our promises and stand behind the quality of our product.
- To value and recognize the strength diversity brings to our work force. Promote an equal opportunity environment.
- Strive to instill the Navy Core Values of Honor, Courage and Commitment by realizing that individual accountability is paramount.
- Our people are our most important asset. As such:
 - * treat them fairly and with respect
 - * empower them with the resources and encourage initiative to produce a better product
 - * strive to place authority at the lowest possible level
 - * recognize their accomplishments as individuals and as part of the team
 - * encourage personal and professional development

Naval Diving and Salvage Training Center

“We Dive the World Over”



Since the turn of the century, the U.S. Navy has used several sites for deep-sea diver training. The Naval Diving and Salvage Training Center (NDSTC) in Panama City, Florida, is the latest step in the long history of U.S. Navy diver training.

In 1882, the Navy established a diving school under the supervision of retired Chief Gunner's Mate Jacob Anderson in Newport, Rhode Island. Training in simple diving had been a part of the course at the Gunnery School for some time, since gunner's mates were assigned as ships' divers. However, Chief Anderson's two-week course was the first designed specifically for diver training. The school trained divers to descend to 60 feet of seawater (fsw) to recover exercise torpedoes. This school was closed with the outbreak of World War I, as all available divers were needed in the fleet.

In 1927, the Diving School was reestablished at the Washington Navy Yard. The curriculum included training with hand and power tools, as well as underwater burning with oxygen-hydrogen and oxygen-arc

torches. Divers were rated as first or second class depending on their demonstrated proficiency with tools. Students qualified to a depth of 150 fsw and were exposed to pressures of 300 fsw in hyperbaric chambers. In 1942, a salvage school was opened in New York City but was moved to Bayonne, New Jersey, a few years later. The Washington Navy Yard facility was closed in 1980 when the Panama City facility was opened.

NDSTC is located on St. Andrew Bay's Alligator Bayou. The Center is staffed with approximately 162 Navy, 9 Army, 12 Marine Corps, 2 Coast Guard personnel and 13 government-employed civilians. The student body is comprised of officer and enlisted candidates from the Navy, Marine Corps, Army, and Coast Guard, as well as foreign nationals and selected DOD civilians. The school has 24 different courses of instruction, accommodating approximately 1200 students per year, with an average of 150 to 250 students being trained at any given time. The staff of professional instructors conducts approximately ten thousand dives a year and qualifies students to a max depth of 850 fsw (Saturation Divers only). On the school's twentieth anniversary, the facility was dedicated to Vice Admiral Charles "Swede" Momsen in recognition of his incredible contributions to Navy diving and salvage. The Naval Diving and Salvage Training Center is proud to be the "World's Leader" in diving training and boasts that graduates are ready to begin or renew their careers as the "World's Best Trained Divers." Hoo-yah and welcome aboard!

Craft Department



Yard Diving Tender 18 alongside the NDSTC pier

The Craft Department's primary mission is to provide at-sea vessel support for diving operations. The department is responsible for the operation and maintenance of two 131 ft Yard Diving Tenders (YDT), one Side Load Warping Tug (SLWT), and 12 small boats ranging from 15 ft to 27 ft. The department consists of three separate divisions: YDT-17, YDT-18, and Boat Shop.

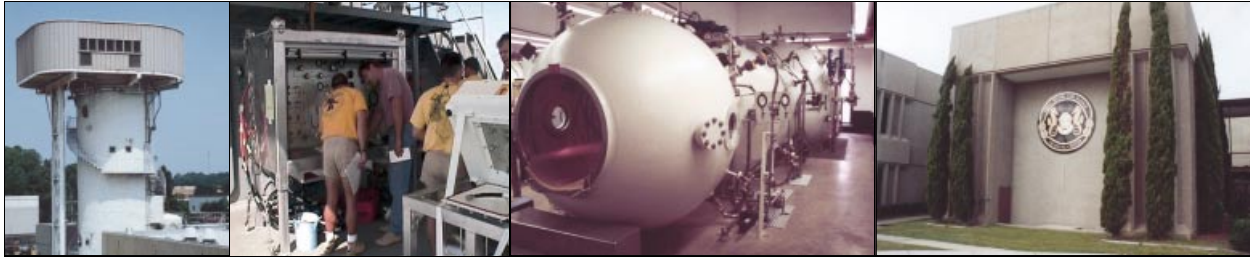
YDT-17/18: Each craft is manned with a crew of 8-10 personnel consisting of a Craftmaster, Chief Engineer, Electrician and other personnel in various ratings. The Craftmaster is responsible for the safe operation and upkeep of the craft, ensuring the crew stays proficient in mooring, anchoring, and emergency procedures. Both craft have the capacity to perform surface supplied air & mixed gas diving and SCUBA operations. In addition, a hyperbaric chamber is maintained onboard in the event of a diving casualty. The underway schedule averages between 160-175 days out of 228 training days available per year.

Boat Shop: Manned with 7 personnel who provide most of the maintenance services for the SLWT, and all small boats. They provide coxswains for all bay swims, SCUBA operations, and are utilized to locate sites for diving operations conducted from YDT-17/18. In addition they are responsible for the maintenance and operation of all salvage equipment and hydraulic tools utilized for diver training.



LARC-5 Amphibious Craft

Engineering Department

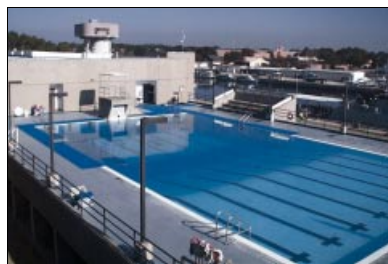


Hyperbarics Division: Responsible for the design, construction, operation, maintenance, repair, modification, and overhaul of all Hyperbaric and Diver's Life Support Systems located at NDSTC. These systems include three multi-million dollar Pressure Vessel Assemblies (PVA), four hyperbaric chambers, six high-pressure air compressors, three medium pressure air compressors, two low-pressure air compressors, a state-of-the-art oxygen clean room and gauge calibration lab, and a wide assortment of Technical Training Equipment (TTE). Personnel assigned to Hyperbarics Division are tasked with the demanding responsibility for maintaining and preserving these systems to a standard that must sustain stringent life support system certification requirements. The three Pressure Vessel Assemblies are certified to an operating depth of 600 ft unmanned and 300 ft manned while the four hyperbaric chambers are certified to an operating depth of 165 ft manned. One hyperbaric chamber is located on each of the Yard Diving Tenders where the surface supplied diving systems are certified to an operating depth of 190 feet. Hyperbarics Division is also responsible for maintaining and transferring all gases used in diving operations at the command, which includes air, oxygen, helium, nitrogen, helium-oxygen mixture, and nitrogen-oxygen mixture. They have the vital responsibility of ensuring that gases are not contaminated.



Repair Division: Consists of two separate sections, Shops and Facilities.

Shops: Consists of five industrial work centers; the welding shop, machine shop, electrical and audio-visual shop, carpenter shop, and engraving shop. Staffed by various engineering rates, personnel assigned to a shop are responsible for maintaining and repairing Diver's Life Support Systems, two Yard Diving Tender's, eight small craft, and the salvage barge. They are also responsible for manufacturing prototype projects and training aids to enhance student's training.



Facilities: Responsible for the operation and maintenance of 10 buildings totaling approximately 155,000 square feet, a 280,000 gallon training tank, a 40 foot Buddy Breathing Ascent Tower, and all building structures and grounds. Maintenance includes all major facility components such as plumbing, chill water system, gas-fired boilers, electrical distribution panels, and associated support equipment.

Training Department



The Training Department is responsible for conducting the 24 diving and diving-related courses and evolutions offered at the Naval Diving and Salvage Training Center. The Instructor staff is comprised of Navy, Marine Corps, Army and Coast Guard personnel so that the specific requirements of all branches of the Department of Defense can be met.

The following is the minimum physical requirements that must be met before the student is allowed to enter training:

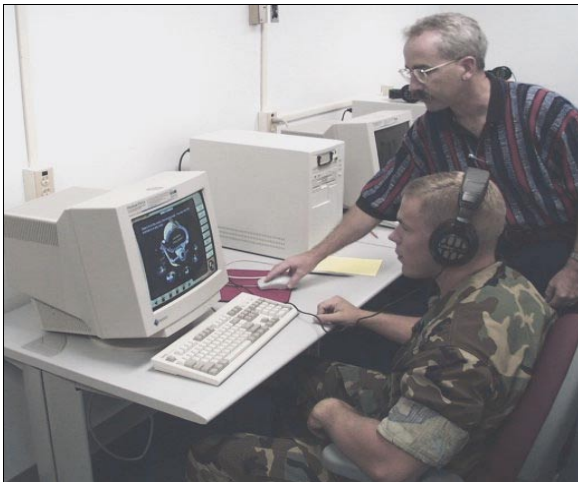
<u>Physical evolution</u>	<u>Time limit</u>
Swim 500 yds continuously, utilizing sidestroke and/or breaststroke.	14 MIN
REST	10 MIN
Perform 42 push-ups in 2 min or less.	2 MIN
REST	2 MIN
Perform 50 sit-ups in 2 min or less.	2 MIN
REST	2 MIN
Perform 6 pull-ups, no time limit.	N/A
REST	10 MIN
Run 1.5 miles	12 MIN 45 SEC

*The physical screening test is conducted in running shorts, t-shirt and running shoes

Student Training

Training of the students is broken down into three areas: physical fitness, academics and laboratories. Each training evolution is very important to the development of a confident, efficient, and safe diver.

Physical fitness is a life style for military divers. It is very important to keep physically fit due to the extreme nature of the job. As a student at NDSTC, physical fitness will be tested periodically through the use of level tests, bay swims, and physical fitness tests (PFT). This allows the instructors to monitor the student's progress throughout the duration of training. To ensure students develop good workout habits, they are required to attend physical training sessions every morning from 0700 to 0830. These sessions are lead by the instructors assigned to them.



The classroom is the setting for the academic instruction that every student experiences while at NDSTC. Here, they will be exposed to multimedia presentations on diving physics, medicine, equipment and safety and tested on material required for graduation from their respective courses.

All of the training received will build confidence in the student that is essential for problem solving and emergency procedures needed while on the job.

The laboratories that each student is exposed to tests the student's ability to perform in selected situations. These laboratories are conducted in the pool, dive tower, wet pots, hyperbaric chambers, and pier side. In order to become comfortable and gain confidence under water, the students go through confidence training. This training is a weeklong session in the pool where the instructors impose problems on the students while they are using their SCUBA equipment. Students are also trained in safety techniques like buddy breathing and emergency ascents.



NDSTC Course Descriptions

1. **Second Class Swimmer** – 1 day. Provides basic training necessary to qualify as a second class swimmer.
2. **SCUBA** – 5 weeks. Provides qualified non-diving personnel with the basic training necessary to perform as dive team members/SCUBA Divers in the planning, set-up, and repair work on surface vessels and submarines.
3. **Second Class Diver** – 20 weeks. Provides qualified non-diving personnel with the basic training necessary to perform as dive team members/Second Class divers.
4. **First Class Diver** – 8 weeks. Provides Second Class Divers with the training necessary to perform advanced operational diving as dive team members. It also provides the prerequisite training for additional diving supervisor qualifications.
5. **Mixed Gas Diver** – 3 weeks. Provides qualified divers with advanced training to supervise and to support helium-oxygen surface supplied diving operations.
6. **Diving Medical Technician** – 24 weeks. Provides qualified Hospital Corpsmen extensive instruction in diving techniques used by First Class and Second Class Divers, with emphasis on the physiological aspects of diving.
7. **Basic Diving Officer** – 16 weeks. Provides qualified non-diving officers with the training necessary to perform the duties of Diving Officers, including performance as dive team members/divers.
8. **Salvage Diving Officer** – 6 weeks. Provides Basic Diving Officers with the training necessary to support fleet salvage operations.
9. **Saturation Diver** – 4 weeks. Train qualified divers in saturation diving techniques, system operation and maintenance.
10. **Master Diver Evaluation** – 2 weeks. Provides qualified First Class and Saturation Divers the opportunity to be evaluated using simulated high stress diving conditions to obtain the qualifications necessary to become a Master Diver.
11. **Diving Medical Officer** – 9 weeks. Provides qualified Medical Officers with the training necessary to operate as consultants/team members/divers during operational air and mixed-gas surface supplied diving.
12. **Recognition and Treatment of Diving Casualties** - 2 weeks. Provides Medical Officers with the basic training necessary to safely and effectively perform as medical advisors for hyperbaric treatments and to evaluate divers and diver candidates prior to diving.

NDSTC Course Descriptions

13. **Amphibious Reconnaissance Corpsman** - 3 weeks. Provides qualified Hospital Corpsman the basic training necessary to safely and effectively perform medical functions as a Marine Corps amphibious reconnaissance dive team members.
14. **USMC Combatant Diver** - 7 weeks. Provides qualified Marine Corps enlisted and officer personnel with the basic training necessary to effectively perform as dive team members/divers in SCUBA and MK 25 Underwater Breathing Apparatus.
15. **Explosive Ordnance Disposal Diver** - 12 weeks. Provides qualified personnel with the basic training necessary to safely and effectively perform as dive team members/divers in SCUBA, MK-16 and the MK-21 surface supplied diving systems.
16. **Explosive Ordnance Disposal Mixed Gas Diving Underwater Breathing Apparatus (MK-16)** - 2 weeks. Train qualified divers in the operation, deployment and maintenance of the MK-16 mixed gas UBA.
17. **Underwater Construction Technician Basic** - 23 weeks. Provides students with the basic fundamentals of underwater construction methods, tool application, and construction procedures.
18. **Underwater Construction Technician Advanced** - 13 weeks. Provides Basic Underwater Construction Technicians with the training necessary for underwater construction, project planning and execution, and deployment of UCT detachments. Completion of this course prepares students for the position of project planners.
19. **Salvage/Construction Demolition Diver** - 4 weeks. Provides qualified divers with the knowledge and skills required to effectively use precision special purpose munitions (SPM's) in salvage, underwater repair, and underwater construction operations.
20. **Engineer Diver (Army Second Class Diver)** - 26 weeks. Provides qualified non-diving personnel with the advanced individual and team training necessary to perform as members of a United States Army Engineer Diving Team.



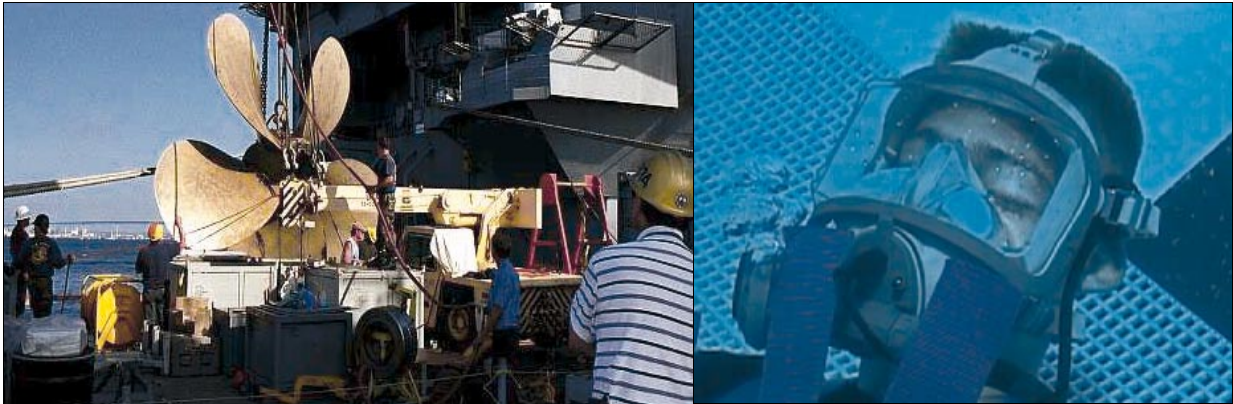
NDSTC Course Descriptions

21. **Engineer Diver, BNOC Phase 3 (Army First Class Diver)** -14 weeks. Provides qualified Army personnel with the training necessary to serve as diving supervisors for Engineer SCUBA and surface supplied missions. Personnel are also trained in the recognition and treatment of diving casualties.
22. **Engineer Diver, ANOC Phase 2 (Army Master Diver)** - 4 weeks. Provides qualified Army diving personnel selected for promotion to Sergeant First Class training to perform as Army Master Divers for U.S. Army Engineer Diving Teams.
23. **Supplemental Emergency Egress Device (SEED) Maintenance Training** - This ICW Training Program covers the operation and maintenance of the SEED refill manifold, fleet refill locations, corrective maintenance, and logistics data.
24. **Supplemental Emergency Egress Device (SEED) Management Training** - This course covers stowage, operational and physical characteristics, federal regulations, watch stander preventative maintenance, and location of refill support.

*** SCUBA course is also taught at our Hawaii site.**



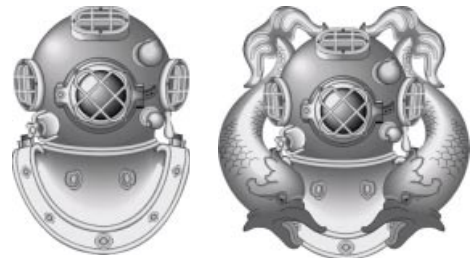
Fleet Diver



Here at NDSTC, more personnel are trained to be fleet divers than any of the other specialized diving programs. Fleet divers form the backbone of the Navy diving community and are proficient in many different mission areas, including salvage, hull repair, and search and rescue.

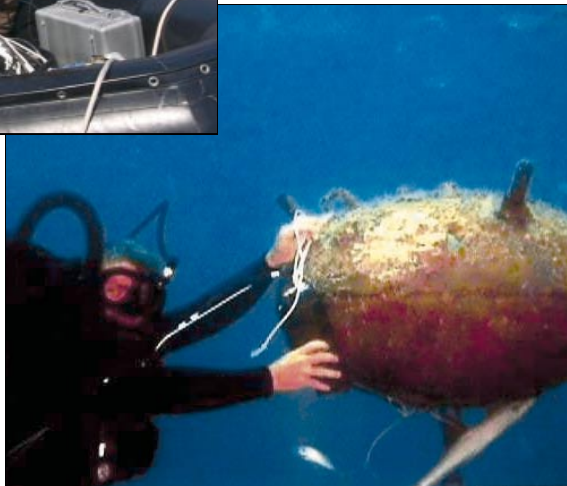
Fleet divers were involved in salvage operations resulting from the terrorist attack on the *U.S.S. Cole*. These divers are often called upon for similar operations involving downed civilian and military aircraft, sunken ships and submarines, and retrieval of test munitions.

Fleet divers are a vital part of the Navy; they keep the Navy afloat and out of dry dock. They have rescued lives, searched for missing planes, and continue to save the government money by repairing ships at sea.



Explosive Ordnance Disposal Diver

The Explosive Ordnance Disposal Diver Curriculum is an intensive 12 week course designed to prepare students for the rigors and unique challenges of EOD diving. The curriculum consists of the following topics: Basic Diving Physics, Basic Diving Medicine, SCUBA, MK 21 Surface Supplied Diving, Small Boat Operations, Underwater Search Operations and Procedures, and MK 16 Closed Circuit SCUBA Mixed Gas Diving Apparatus. Students who successfully complete the EOD Diver Course receive follow on training at Naval School Explosive Ordnance Disposal, located at Eglin Air Force Base.

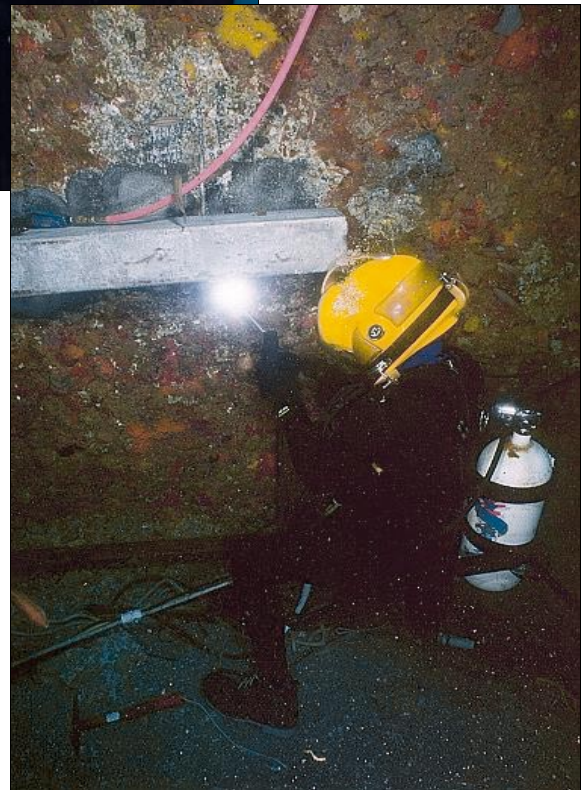


Underwater Construction Divers



The Underwater Construction Teams consist of Seabee divers who perform inspection, repair, removal and construction of in-water facilities in support of military operations. Seabee divers are specifically trained in the special techniques used to accomplish these tasks. In the Basic Underwater Construction course, students learn the skills required to operate underwater hydraulic tools, surveying equipment and small boats. They learn how to place underwater concrete, inspect waterfront facilities and perform underwater excavation. The final requirement for the course is to master the principles and techniques for precision underwater demolition. Students in the

Advanced Underwater Construction Course learn the principles and techniques of management of underwater construction projects. Students learn how to estimate material, manpower and equipment/resources and draft required correspondence. Advanced students also learn to supervise precision demolition operations, manage demolition resources, and execute emergency procedures.

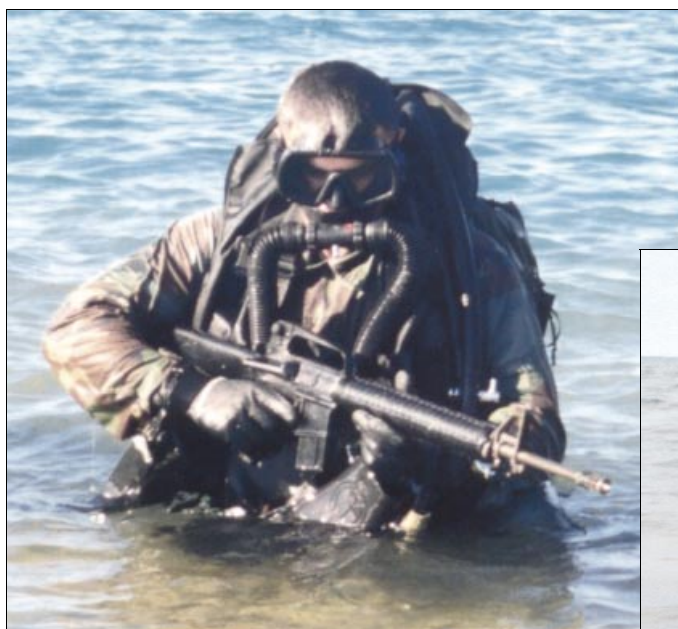


Marine Corps Combatant Diver



The seven-week USMC Combatant Diver Course is designed to provide qualified USMC personnel with the specialized training necessary to effectively perform as Marine Corps reconnaissance dive team members. Students are trained to utilize open circuit SCUBA and closed circuit MK-25 Underwater Breathing Apparatus in accordance with the U.S. Navy Diving Manual and applicable Marine Corps Orders and Directives. The course focuses on very challenging, high-risk, clandestine infiltration training.

The curriculum for the USMC Combatant Diver Course was developed by the Naval Diving and Salvage Training Center in conjunction with the Marine Corps Combat Development Command, Quantico, Virginia. The course is under the cognizance of the Chief of Naval Education and Training, and the Commanding General, Marine Corps Training and Education Command.



Army Engineer Diver



U.S. Army Engineer Divers do not claim to be the experts in all they do; rather, they pride themselves on knowing “a little about a lot.” The greatest strength of Engineer Divers is their ability to perform a wide range of tasks with the flexibility to meet the technical and tactical requirements of most missions. It is for this reason that the Engineer Diver courses incorporate many of the skills that are taught in other curriculums offered at NDSTC.

Students of the 26 week long Engineer Diver course first learn basic concepts of physics, physiology and medicine. These concepts are necessary to understand the effects of diving on the body and the limitations imposed. Students are then trained in SCUBA and Surface Supplied Diving operations, qualifying them to a depth of 190 ft.

After teaching SCUBA and Surface Supplied Diving, the focus of the course turns to the technical capabilities related to the mission of an Engineer Diver. These skills include the principles and techniques used during underwater hydraulic tool use; cutting and welding; weight handling and excavation operations; inspection, repair or removal of waterfront facilities, mooring systems and pipeline assemblies; hydrographic or bathymetric surveys in support of Joint Logistics Over The Shore (JLOTS) operations; employment of surface or underwater demolitions and mine/countermine techniques; and engineer, route, river or demolition estimates during reconnaissance operations.

Follow-on courses teach supervisory skills and operational planning along with testing and evaluation for the Master Diver qualification/rating.

Community Service

The Naval Diving and Salvage Training Center continues to be heavily involved in the Panama City community through the many volunteer services performed by both staff and students.



Awarding a Student of the Month

Nowhere is this more evident than at the Margaret K. Lewis School for Exceptional Children, the “adopted” school of NDSTC. This school, which serves a three county area, caters specifically to students affected by disabilities such as Down’s syndrome, cerebral palsy and autism, to name a few. Personnel from NDSTC take an active role in the lives of these students through the presentation of monthly awards, building playground equipment, and chaperoning summer camps.

The men and women assigned to NDSTC are also active in many community organizations, including the American Red Cross, Junior Achievement, United Way, Boy Scouts of America, Meals on Wheels, and youth sports. The command also participates in the Adopt a Highway and Adopt a Beach programs in support of environmental awareness. NDSTC was recently awarded a key to Panama City Beach for the construction of the Under the Palms Playground at Panama City Beach’s Frank Brown Park. This Little Tykes playground is the largest ever constructed in the history of the Little Tykes Company and was the end result of five days of hard work.



A completed playground at a local school

NDSTC personnel are also active in numerous outreach and mentoring programs. The positive example set by the volunteers as well as their strong leadership skills provide positive role models for area youth. They are taught the importance of doing well in school and staying out of trouble. NDSTC’s efforts were recognized through its selection as the 1999 USS Bainbridge Award recipient for outstanding community service.

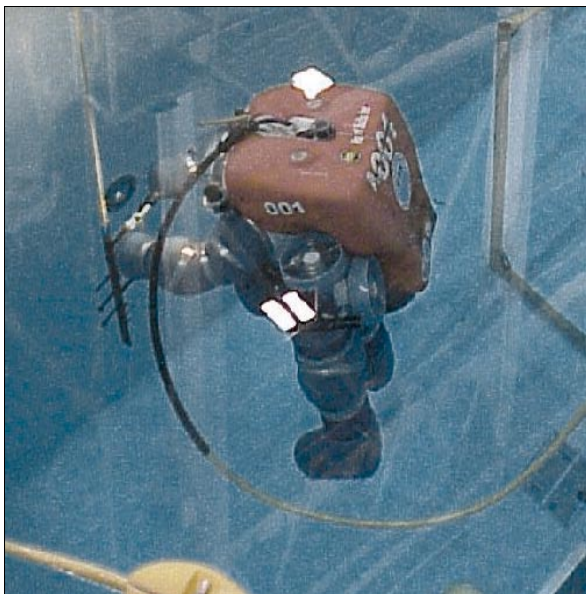
Through the continuing efforts of its volunteers, the Naval Diving and Salvage Training Center continues to be a welcome supporter of Panama City and Bay County Communities.

Atmospheric Dive System (ADS) 2000

The Atmospheric Dive System 2000 allows a diver to descend as deep as 2000 feet while remaining at sea level (atmospheric) pressure. The need for decompression during ascent is completely eliminated as are many of the logistical problems associated with working at great depths. A dive that would normally require days for the ascent can now be accomplished in twenty minutes with the ADS 2000. Its primary mission right now is assisting distressed submarines, which, in the wake of the loss of the Russian submarine, *Kursk*, emphasizes the importance of this technology.



ADS 2000 undergoing testing off the coast of San Diego



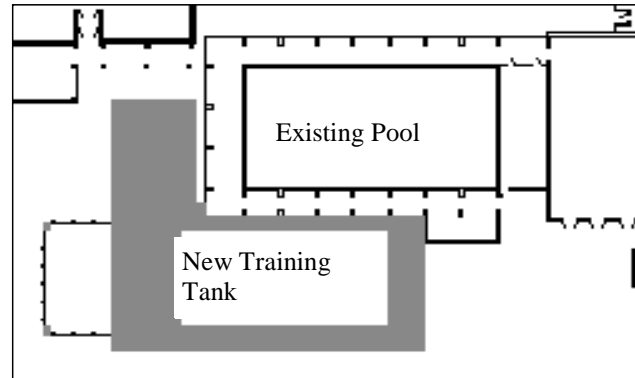
Pool testing of ADS 2000

Training for use of the ADS 2000 is currently in San Diego. NDSTC is interested in acquiring the ADS 2000 to train for salvage and recovery operations. Having this asset at NDSTC will greatly enhance Navy salvage capabilities. Operational readiness and mission capability will be significantly increased due to increased diver bottom times and the elimination of decompression requirements. NDSTC will have training and maintenance assets available, as well as an operational team prepared for rapid deployment. Additional support provided by the Navy Experimental Diving Unit and Coastal Systems Station make NDSTC the ideal location for the ADS 2000.

Ships Underwater Repair Training Facility (P-315)

Military Construction Project (MILCON)

Project Description: The facility will include a training tank with a 55-ton gantry crane and training support spaces. Three Tenant commands located onboard NSWCCSS will benefit from this project. The facility will be constructed at the Naval Diving and Salvage Training Center (NDSTC) and will also be used by the Navy's Experimental Diving Unit (NEDU) and the Special Warfare Center, Seal Delivery Vehicle (SDV) Training Detachment. The primary requirement for the new training tank is to provide NDSTC with the proper facility to train divers in safe underwater rigging and repair of hull appendages. Currently, training is conducted in brackish, open-water using unrealistic training aides. Due to limited visibility, instructors cannot observe students or provide instructional feedback. P-315 will alleviate overcrowding of existing facilities by providing NEDU an alternate facility to conduct testing on the MK-16 diving apparatus. SDV Training Det will use the facility to conduct introductory SDV operations along with MK-16 training.

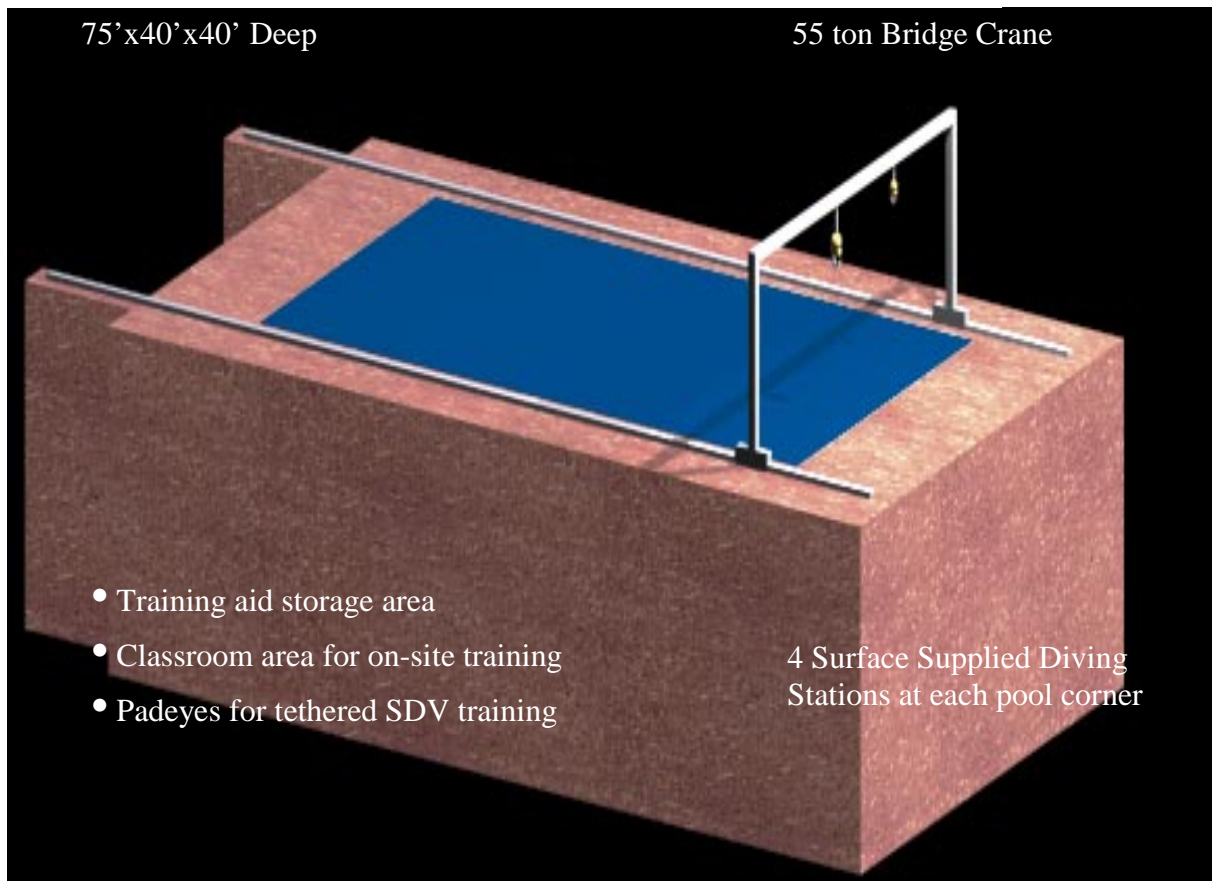


- Program Year: FY 03
- \$6.4M Construction Cost (\$260K in DESIGN-BUILD)
- Physical Characteristics
 - 75'x40'x40'
 - On-site classroom area
 - Training Aid Storage Area
- Major Customers Served
 - FLT CINCs LANT/PAC
 - SUBLANT/PAC
 - SPECWAR
 - EOD COMMUNITY



Addition to existing
Panama City fleet
training facility

P-315 Project Description



Training Aides

- Controllable Pitch Propeller
- Enclosed Space Ballast Tank
- Masker Belt Cleaning
- Sonar Transducer



Salvage Hulk

The ATA-181 Salvage Hulk arrived at NDSTC in 1987 to be used as a training platform for salvage operations. It had been sunk and raised alongside the school's east-side dock by more than 850 students over the years. On 9 July 2000, the salvage hulk was sent to the bottom of the Gulf of Mexico.



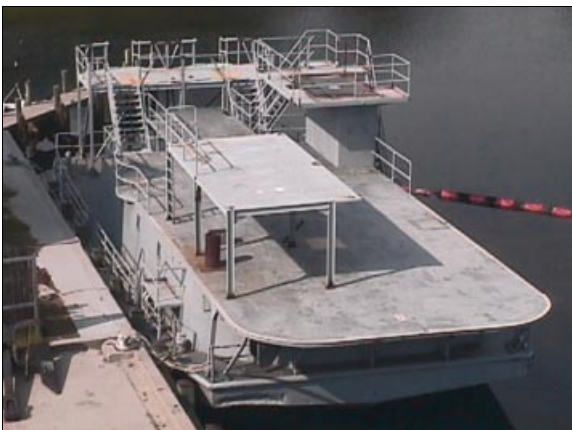
ATA-181 being sunk in the Gulf of Mexico



Salvage Hulk ATA-181 at NDSTC

- ATA-181 ex-USS ACCOKEEK
- Commissioned 1944
- Decommissioned 1972
- Arrived NDSTC 1987
- Sunk as an Artificial Reef on 9 July 2000 by Panama City Marine Institute.

The salvage hulk that is currently being used for instruction is the Navy 2154. This steel hull has been modified for use as a salvage training platform. It will soon be reconfigured with 3 platforms above waterline when sunk and 15-20 problem solving holes.



Salvage Hulk Navy 2154 after modification



Interim Salvage Hulk NAVY 2154

- Constructed 1973
- Modified 1989
- Length 83 ft
- Width 33 ft
- Existing Draft 1.5 ft

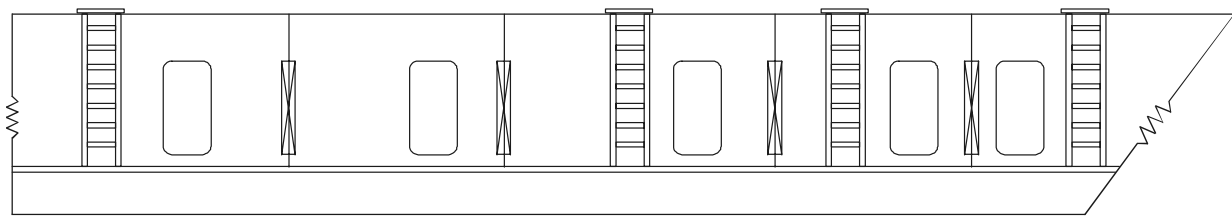
Proposed Salvage Training Aid

With this new design, instructors would be able to impose several different scenarios for the students to learn from. This salvage hulk would create a more realistic learning environment for students and instructors to explore. The life expectancy of this design would be 25-30 years. This is much longer than normal salvage hulks due to its design since it is specific for salvage training. This project cost is estimated to be approximately two million dollars.

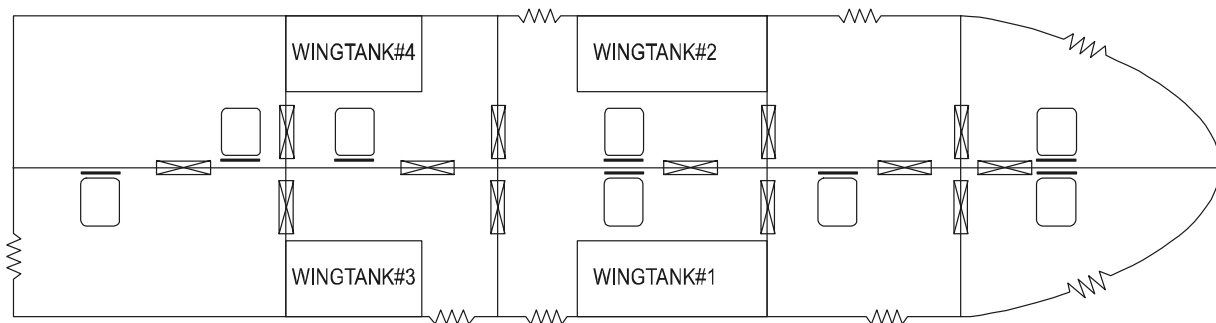
Ship characteristics include the following:

- 1 longitudinal bulkhead and 4 transverse bulkheads to create 10 floodable spaces.
- Four wing tanks will be used for ballast by instructors.
- 124' x 28' Barge shape, V-Hull Displacement Bow

Proposed Hull Design:



124' NDSTC TRAINING WRECK
INBOARD PROFILE



124' NDSTC TRAINING WRECK
1st PLATFORM



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Contact Information

World Wide Web Search Engine Keyword: NDSTC

Home Page : www.cnet.navy.mil/ndstc/

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